#### caGrid Portal 3.0

**New Look and New Features** 



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health





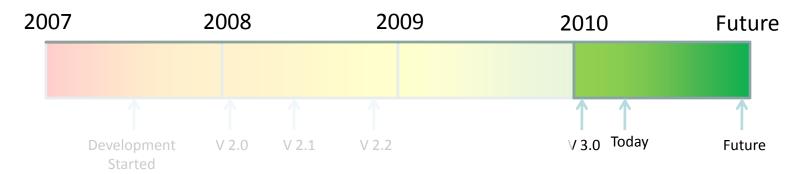




### Agenda

- Introduction to the new portal
- Key Features
  - Data Access
  - Sharing
  - Expanding Community
- Future Activities
  - Informatics User
  - Scientific User

### History



- The caGrid Portal was created as a Webbased application to discover and interact with the services that are available on the caGrid infrastructure.
- Version 3.0 release in March 2010, Focused on <u>usability</u>, data "<u>liquidity</u>" and enabling <u>community</u> of users

### caGrid Portal 3.0: Key Features

- Smoother interface
  - Usability
- Catalog Items and interlinking
  - Data Access
- Emphasis on Shared Queries
  - Ease of Data Access
- Communities
  - Bringing people together

### caGrid Portal v3.0(Front Page)

- The Front Page is designed to more closely align with the user needs
- User can click on the map items and navigate directly to the service or institution
- The Top bar quickly gets users to what they care about.
- The Data Set Categories show the data in a form more recognizable to a scientist



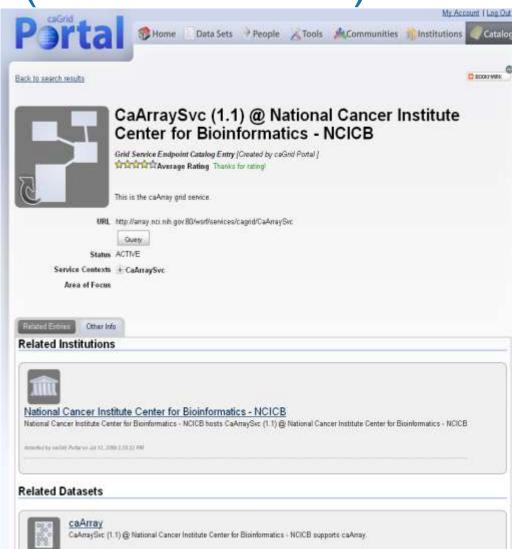
### caGrid Portal v3.0 (Catalog)

- All items are now catalog entries
  - Information Models
  - Portlets
  - Data Services
  - Analytical Services
  - Institutions
  - People
  - Shared Queries
  - Communities
- Catalog Items can be browsed, searched, and filtered
- Catalog items have many associations to other catalog items



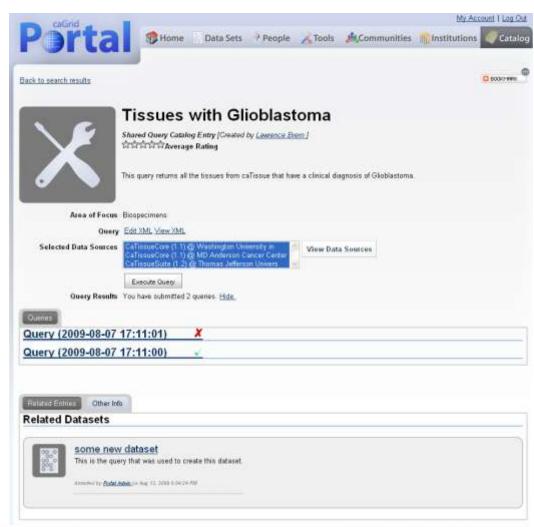
### caGrid Portal v3.0(Data Services)

- Data Services are easier to find and use
- One button to begin a query for the service
- Automatic Diagnostics to verify the service is configured correctly and available
- Shows the related data model, institution, people, and other key information
- Allows a one-click rating system to let users relate their experience



## caGrid Portal v3.0 (Shared Queries)

- Shared queries allow users to use existing queries to find the data they need.
- Shared queries can be run against multiple data services (of the appropriate type) at the same time.
- The system stores past queries forever
- Queries can be linked to data sets, communities, cancer centers, people, or any other catalog item
- Queries can use Grid
  Credentials of the user if needed



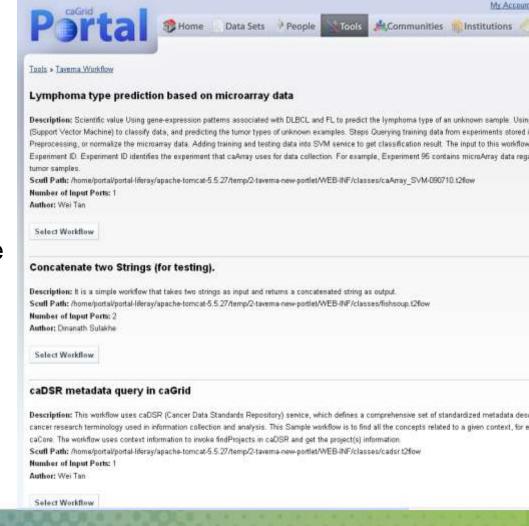
## Community Portlets – Cancer Bioinformatics Infrastructure Objects

- Provides ability to create customized data access over and above the plain vanilla query capability provided by portal
- Makes the user interface much more intuitive to the community
- Allows "crowd sourcing" of portal!



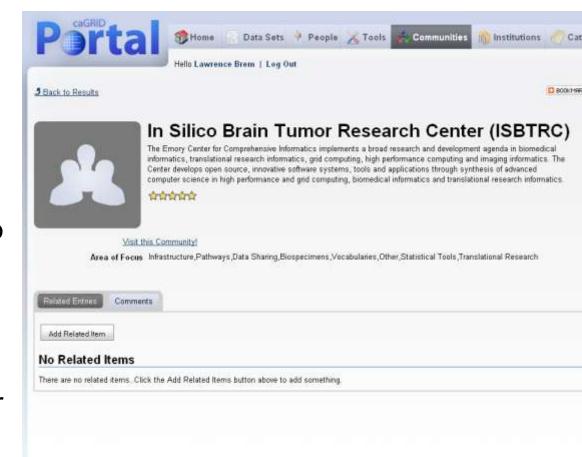
### caGrid Portal v3.0 (Workflow)

- The workflow Portlet can execute workflows created with the *Taverna* Workbench tool
- The Researcher can quickly scan the workflows, pick the correct workflow, set the parameters and execute in the caGrid Portal directly
- The researcher can also pull up that workflow in the Taverna Workbench to change any element necessary



#### caGrid Portal Communities

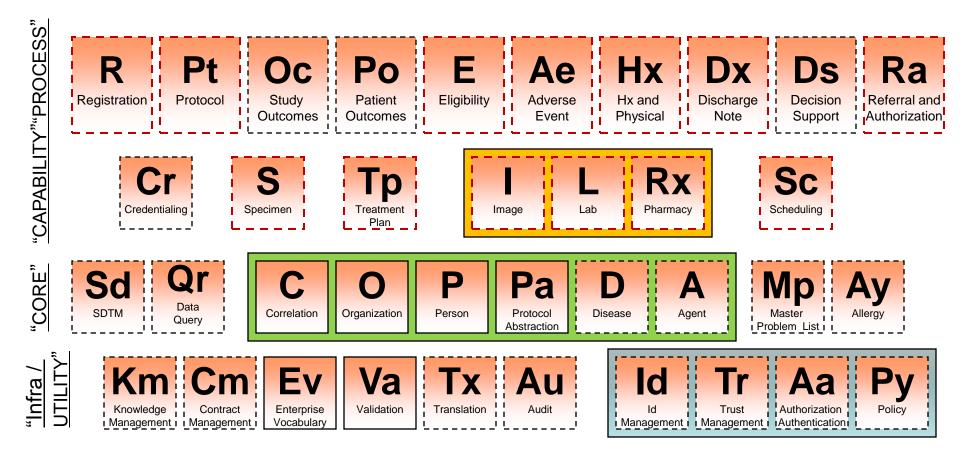
- Communities are a new part of the caGrid Portal
- Communities are adhoc groups created by any user
- Communities are managed by the user who creates the community
- Communities can be public or private with access by invitation only
- Communities can exist for a short period or for the lifetime



#### caGrid Portal Users

- Portal Collaborations
  - NCRI ONIX
    - Ontology based Queries
  - Clinical and Translational Science Award (CTSA) sites
  - Biomedical Informatics Research Network (BIRN)
  - Cardiovascular Research Grid (CVRG)
- NCI In Silico Research Centers
- caBIG Deployment Community
- All of you!

# NCI Enterprise Semantically Aware SOA (sSOA)



## caGrid Future – Some thoughts on future activities

- Provide an accessibility layer on top of the services for easy access
  - Easier than Portlet technology
- Support Service compositions at the User Interface
  - Lego<sup>™</sup> approach

### Thank you